## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	) Three-Dimensional Structure and
Annette Herscovics, et al.	) Crystal of a Class I α1, 2-Mannosidase, and Methods of Use Thereof
Serial No.: 10/089,000	) Oroup Art Unit: Unassigned
Filed: March 22, 2002	) ) Examiner: Unassigned

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Washington, D.C. 20231

Sir:

Applicants submit herewith patents, publications or other information of which they are aware which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56. While information provided in this Information Disclosure Statement may be "material" pursuant to 37 C.F.R. 1.56, the Information Disclosure Statement is not intended to constitute an admission that any patent, publication or other information referred to herein is "prior art" for this invention unless specifically designated as such. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists, as defined in 37 C.F.R. 1.56.

## 37 CFR 1.8 CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service, as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on October 18, 2002.

Corinne Byk /

SWA4338P0070US (WP 1801)

A list of the patents and/or publications is set forth on the attached Form PTO-1449, and a copy of each of the items is supplied herewith.

This Information Disclosure Statement is not being submitted within three months of the filing date of the national application, but it is being filed before receipt of a First Office Action. Therefore, we believe no fee is due. If any additional fee might be required in connection with this matter, please charge our Deposit Account No. 23-0785.

Respectfully submitted,

WOOD, PHILLIPS, KATZ, CLARK & MORTIMER

Date: October 18, 2002

Martin L. Katz, Reg. No. 25,011

Citicorp Center, Suite 3800 500 West Madison Street Chicago, IL 60661-2511 (312) 876-1800

Sheet 1	of ~	3	

Form PTO-1449 (Rev.7-80)	U.S. Department of Commerce Patent & Trademark Office	ATTY.DOCKETT NO. SWA4338P0070US	SERIAL NO. 10/089,000	
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT Herscovics, A. et al		
	,,	FILING DATE March 22, 2002	GROUP	

## U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date
	AA					,	
	AB			*			
	AC						
	AD.						
	AE						<u> </u>
	AF						
	AG	•					
	AH						
	AI						
	AJ					*	
	AK						

FOREIGN PATENT DOCUMENTS

		Document number	Date	Country	Class	Subclass	Translatio	n
A	<b>\</b> L							
1	AM.		1					
	AN		·					
	AO							
	AP							
	ĀQ			·		•	<u> </u>	

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

B. Henrissat, Biochem. J. 280, 309 (1991)
K. W. Moremen, R. B. Trimble, A. Herscovics, Glycobiology 4, 113 (1994)
Herscovics, Biochim. Biophys. Acta 1426, 275 (1999)
Herscovics, Biochim. Biophys. Acta 1473, 96 (1999)
Herscovics, in Comprehensive Natural Products Chemistry. B. M. Pinto, Ed. (Elsevier, 1999) 3, p. 13
Varki, Glycobiology 3, 97 (1993)
C.Hammond and A. Helenius, Curr. Opin. Cell Biol. 7, 523 (1995)

K. Su, T. Stoller, J. Rocco, J. Zemsky, R. Green, J. Biol. Chem. 268, 14301 (1993)
M. Knop, N. Hauser, D. H. Wolf, Yeast 12, 1229 (1996)
V. Lin, D. Chandhur, C. M. Calmal, D. M. Giffer, J. D. J. Cit., Apr. J.
 Y. Liu, P. Choudhury, C. M. Cabral, R. N. Sifers, J. Biol. Chem. 272, 7946 (1997)
Camirand, A. Heysen, B. Grondin, A. Herscovics, J. Biol. Chem. 266, (1991) 15120
J. C. Byrd, A. L. Tarentino, F. Maley, P. H. Atkinson, R. B. Trimble, J. Biol. Chem. 257 14657 (1982)
S. Jelinek-Kelly, A. Akiyama, B. Saunier, J. S. Tkacz, A. Herscovics, J. Biol. Chem. 26(2253 (1985)
S. Jelinek-Kelly and A. Herscovics, J. Biol. Chem. 263, 14757 (1988)
F. D. Ziegler, T. R. Gemmill, R. B. Trimble, J. Biol. Chem. 269, 12527 (1994)
J. Bischoff and R. Kornfeld, J. Biol. Chem. 258, 7907 (1983)
J. Bischoff, L. Liscum, R. Kornfeld, J. Biol. Chem. 261, 4766 (1986)
L. J. Rizzolo and R. Kornfeld, J. Biol. Chem. 263, 9520 (1988)
S. Weng and R. G. Spiro, J. Biol. Chem. 268, 25656 (1993)
Lal, et al., Glycobiology 8, 981 (1998)
Tremblay, L.O. and Herscovics, A. Glycobiology 1999, 9, 1073
C. A. Jakob, P. Burda, J. Roth, M. Aebi, J. Cell Biol. 142, 1223 (1998)
Y. Liu, P. Choudhury, C. M. Cabral, R. N. Sifers, J. Biol. Chem. 274, 5861 (1999)
Marcus, N. Y. and Perlmutter, D. H. J. Biol. Chem. 275, 1987 (2000)
F. Lipari, A. Herscovics, Glycobiology 4, 697 (1994)
F. Lipari, B. J. Gour-Salin, A. Herscovics, Biochem. Biophys. Res. Commun. 209, 322 (1995)
F. Lipari and A. Herscovics, J. Biol. Chem. 271, 27615 (1996)
T. Brunger, et al., Acta Crystallogr. <b>D54</b> , 905 (1998)

·	
	R. A. Laskowski, M. W. MacArthur, D. S. Moss, J. M. Thornton, J. Appl. Crystallogr. 26, 283 (1993)
	Z. Otwinowski, W. Minor, Methods Enzymol. 276, 307 (1997)
	J. Kraulis, J. Appl. Cryst. 24, 946 (1991)
	E. A. Merritt and M. E. P. Murphy, Acta Crystallogr. D50, 869 (1994)
	A. Nicholls, K. A. Sharp, B. Honig, Proteins 11, 281 (1991)
	Aleshin, A. Golubev, L. M. Firsov, R. B. Honzatko, J Biol. Chem. 267, 19291 (1992)
	P.M. Alzari, H. Souchon, R. Dominguez, Structure 4, 265 (1996)
	H.W. Park, S.R. Boduluri, J.F. Moomaw, P.J. Casey, L.S. Beese, Science 275, 1800 (1997)
	Nagar, R.G. Jones, R.J. Diefenbach, D.E. Isenman, J.M. Rini, Science 280, 1277 (1998)
	G. Parsiegla, M. Juy, C. Reverbel-Leroy, C. Tardif, J-P. Belaich, H. Driguez, R. Haser, EMBO J. 17, 19, 5551 (1998)
	F. Lipari and A. Herscovics, Biochemistry 38, 1111 (1999)
	R. N. Sifers, Nat. Struct. Biol. 2, 355 (1995)
	J. D. McCarter and S. G. Withers, Curr. Opin. Struct. Biol. 4, 885 (1994)
	Schmidt, A. Schlacher, W. Steiner, H. Schwab, C. Kratky, Protein Sci. 7, 2081 (1998)
	Dole et al. (1997) Journal of Structural Biology 120(1):69-72
	Vallée et al. (1999) Acta Crystallographica Section D Biological Crystallography 55(2):571-573
	Vallée et al. (2000) EMBO Journal 19(4):581-588
<u> </u>	

Examiner	Date considered
ŕ	
#Examiner: Initial if reference considered, whether or no	of citation is in conformance with MPEP 600. Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to applicant.